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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/530,663 | 04/06/2005 | Noriharu Kojima | 38052 | 7642 |

52054 7590 03/31/2006

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EXAMINER

CUMMING, WILLIAM D

| | |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
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2617

DATE MAILED: 03/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/530,663

Applicant(s)

KOJIMA & WATANABE

Examiner

WILLIAM D. CUMMING

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-7 and 9 is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☒ Claim(s) 8 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, *"the list may not be incorporated into the specification but must be submitted in a separate paper."* Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

2. Electronic Processing of Information Disclosure Statement

SUMMARY

As part of its e-commerce program, the United States Patent and Trademark Office (USPTO) beginning on January 18, 2006, will begin electronic processing of the list of citations (e.g., forms 1449 or SB 08) submitted as part of an information disclosure statement (IDS) submitted in applications stored by the USPTO in image form. The USPTO will provide examiners with a tool to electronically annotate citations and electronically sign the IDS when reviewing cited references. The electronically processed IDS will be stored in the USPTO's official record as an entry in the application's image file wrapper and a copy will be mailed to applicant as part of an Office action.

PLANNED IMPLEMENTATION

The USPTO plans to make the tool to electronically process IDSs available to examiners in a staged release beginning on January 18, 2006, and ending in February 2006. Accordingly, applicants that receive numerous Office actions may receive some IDS annotated by hand while receiving other IDSs annotated by electronic means for a limited time period.

ELECTRONIC ANNOTATION AND SIGNATURE

The electronic annotation, similar to hand written annotations, will cause the initials of the reviewing examiner to be applied to either: (1) the immediate left of each citation reviewed; or (2) the immediate left of the first of several consecutive citations and the left of the last of the consecutive citations reviewed with a line connecting the initials. Citations that have not been considered will be lined through.

The electronic signature will be in the form /John Q. Examiner/ at the bottom of the last sheet of citations of an IDS. The examiner may elect to electronically sign each sheet of citations considered.

Comments regarding this notice may be directed to Robert A. Clarke, Deputy Director – Office of Patent Legal Administration, at robert.clarke@uspto.gov. Technical

questions regarding the tool for electronic processing of IDS may be directed to Michael Sigda, Manager – Electronic Patent File Unit, at michael.sigda@uspto.gov.

DATE: 01/24/06 /S/

Specification

3. The abstract of the disclosure is objected to because the implied . Correction is required. See MPEP § 608.01(b).

4. Applicants are reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "*The disclosure concerns,*" "*The disclosure defined by this invention,*" "*The disclosure describes,*" etc.

5. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicants' cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

6. Claim 8 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim.. See MPEP § 608.01(n). Accordingly, the claim 8 not been further treated on the merits.

Allowable Subject Matter

7. Claims 1-7 and 9 are allowed.

8. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose or make obvious the claimed antenna device comprising a first antenna which is matched with first, second, and third frequency bands. A second antenna which is matched with the third frequency band; a diplexer which distributes signals received from the first antenna into signals of the first frequency band and signals of the second and third frequency band. A first switch unit which selects a first transmitter for transmitting signals of the first frequency band or a first receiver for receiving signals of the first frequency band, and connects the selected one to the diplexer; a second switch unit which selects a second receiver for receiving signals of the second frequency band or a second transmitter for transmitting signals of the second frequency band, and connects the selected one to the diplexer and a

third switch unit which selects the second antenna or diplexer, and connects the selected one to a transmitter/receiver for transmitting and receiving signals of the third frequency band.

Priority

9. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Conclusion

10. This application is in condition for allowance except for the above formal matters.
11. Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.
12. A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM D. CUMMING whose telephone number is 571-272-7861. The examiner can normally be reached on Monday-Thursday 11am-8:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Harold Banks can be reached on 571-272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


WILLIAM D. CUMMING
Primary Examiner
Art Unit 2617

Wdc



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